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## **ABSTRACT**

A building panel is disclosed. The building panel Fig. 1 a composite building panel with fibrous cement or similar outer lining or sandwich material (a) and using autoclave aerated concrete( such as Hebel) as a core material (b) with the outer skins of the sandwich panel being bonded to the core material using a suitable bonding agent.

The Claims defining this invention are as follows.

- 1. The Turcon Building Panel uses autoclave aerated concrete as a core material between fibrous cement or similar outer skin which is bonded to the core material using a suitable adhesive or bonding agent, can be made in a variety of thicknesses and sizes and the core material can be reinforced with suitable reinforcing.
- 2. The Turcon building panel of claim 1 can be made to have a combination of different outer skin or sandwich material such as corrugated metal so as to be used as a roofing panel or a floor panel.
- 3. The Turcon building Panel substantially as herein described with reference to the accompanying drawings.

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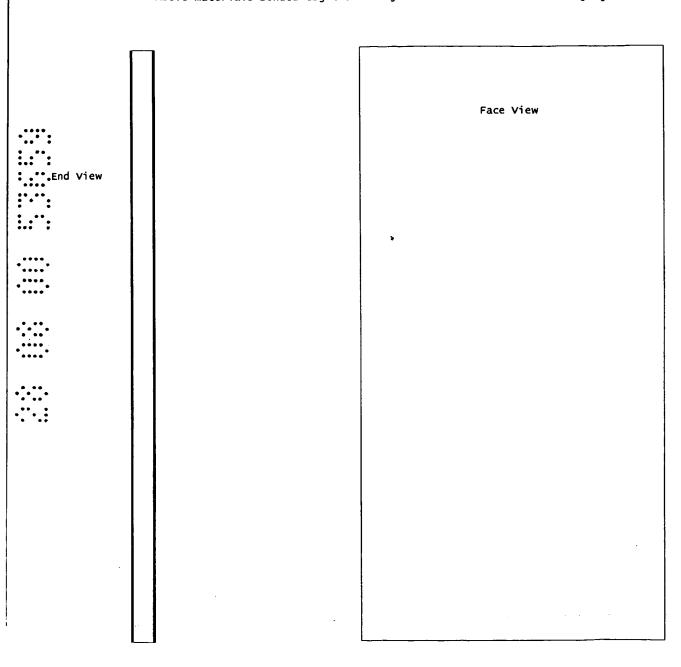
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Top view

(a) Fibrous Cement ( Villa board Hardy plank etc.)

(b) Autoclave concrete ( Hebel or similar)

Above materials bonded together using suitable Adhesive or bonding agent.



## COMPLETE SPECIFICATION STANDARD PATENT

Turcon Building Panel

The following statement is a full description of this invention, including the best method of performing it known to me:

## **Turcon Building Panel**

The invention relates to an improved building panel for use in buildings as an internal partition wall, an external wall and a floor and roof panel for domestic and commercial buildings. At present buildings are constructed using a wide variety of materials most of which are either expensive to obtain, are very labour intensive or are vulnerable to deterioration from weather or insects.

These problems are overcome by the present invention which provides a building panel which is easily manufactured using existing materials to make a composite building panel with fibrous cement or similar outer lining or sandwich material and using autoclaved aerated concrete( such as Hebel) as a core material with the outer skins of the sandwich panel being bonded to the core material using a suitable bonding agent, this results in an extremely strong but light weight easily handled building panel which is very cost effective when compared with existing methods and products, is easy and quick to install, is extremely durable and has very good acoustic and thermal insulation qualities.

To assist with understanding the invention reference will now be made to the accompanying drawings which show examples of the invention.

In the drawings Fig 1 shows the Turcon Building Panel according to this invention.

Fig 2 shows some suggested methods jointing and uses of the panel.

The Claims defining this invention are as follows.

- 1. The Turcon Building Panel uses autoclave aerated concrete as a core material between fibrous cement or similar outer skin which is bonded to the core material using a suitable adhesive or bonding agent, can be made in a variety of thicknesses and sizes and the core material can be reinforced with suitable reinforcing.
- 2. The Turcon building panel of claim 1 can be made to have a combination of different outer skin or sandwich material such as corrugated metal so as to be used as a roofing panel or a floor panel.
- 3. The Turcon building Panel substantially as herein described with reference to the accompanying drawings.

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Top view

(a) Fibrous Cement ( Villa board Hardy plank etc.)

(b) Autoclave concrete ( Hebel or similar)

Above materials bonded together using suitable Adhesive or bonding agent.

Face View ••.End View

Fig 2

Autoclave concrete ( Hebel or similar)

•• Corrugated metal

Autoclave concrete ( Hebel or similar) Autoclave concrete ( Hebel or similar) Autoclave concrete ( Hebel or similar) Autoclave concrete ( Hebel or similar)

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